## **CUMMINS ENGINE DATASHEET**



**ENGINE MODEL: 6LTAA8.9-G2** 

**PERFORMANCE CURVE: FR92516** 



## DONGFENG CUMMINS ENGINE Co., Ltd.

XiangFan HuBei P.R.CHINA

## **ENGINE DATASHEET—for G-drive**

| ENGINE MODEL  |      | FREFORMANCE CURVE |  |
|---------------|------|-------------------|--|
| 6LTAA8.9      | -G2  | FR92516           |  |
| ENGINE FAMILY | CPL  | 2007/06           |  |
| D56           | 3079 | 2007/06           |  |

Displacement 8.9 L Air intake way Air-air after-cooled, turbo-charged

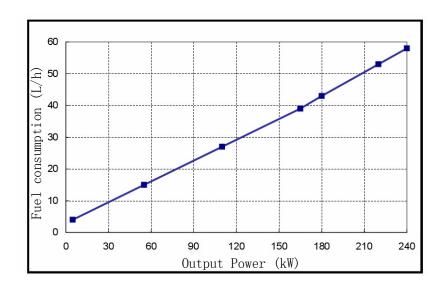
Cylinder bore 114 mm Cylinder quantity 6 kW(BHP) @RPM Stroke 145 mm 220(295) 1500

Fuel system P7100 pump \_ GAC governor / BYC ASIMCO Speed-droop 5%

Engine testing with fuel system, water pump and oil pump, without air compressor, alternator, fan, other options and driving accessory. Testing condition: air intake resistance 250 mmHg, exhaust back pressure 50 mmHg.

| Engine    | Standby Power |     | Base Output Power |     | Continuous Power |     |
|-----------|---------------|-----|-------------------|-----|------------------|-----|
| Speed-RPM | kW            | HP  | kW                | HP  | kW               | HP  |
| 1500      | 240           | 322 | 220               | 295 | 180              | 241 |

| Out              | tput Power |     | Fuel con: | sumption |
|------------------|------------|-----|-----------|----------|
| %                | kW         | HP  | g/kW.h    | L/h      |
| Standby Power    |            |     |           |          |
| 100              | 240        | 322 | 199       | 58       |
| Base Output Po   | ower       |     |           |          |
| 100              | 220        | 295 | 197       | 53       |
| 75               | 165        | 221 | 197       | 39       |
| 50               | 110        | 147 | 201       | 27       |
| 25               | 55         | 74  | 220       | 15       |
| Continuous Power |            |     |           |          |
| 100              | 180        | 241 | 196       | 43       |



| THINITS          | DONGFENG CUMMINS ENGINE Co., Ltd.                      | ENGINE MODEL<br>6LTAA8.9-G2 |             | FREFORMANCE CURVE<br>FR92516 |  |
|------------------|--|-----------------------------|-------------|------------------------------|--|
| Car              | XiangFan HuBei P.R.CHINA ENGINE DATASHEET—for G-drive  | ENGINE FAMILY<br>D56        | CPL<br>3079 | ENGINE FAMILY<br>D56         |  |
| Typical engin    | e data   |                             |             |                              |  |
| Net weight       |  |                             | kg          | 650                          |  |
| Rotate part ins  | stantaneous inertia _ without flywheel                 |                             | kg.m2       | 0.72                         |  |
| Distance betwe   | een gravity center and rear surface of cylinder block  |                             | mm          | 427                          |  |
| Distance between | een gravity center and center line above of crankshaft |                             | mm          | 163                          |  |
| Engine install   | lation   |                             |             |                              |  |
| Static bent tord | que permitted—rear surface of cylinder block           |                             | Nm          | 1356                         |  |
| Static bent tord | que permitted—front surface of cylinder block          |                             | Nm          | N/A                          |  |
| Static bent tord | que permitted—flank surface of flywheel-house          |                             | Nm          | N/A                          |  |
| Exhaust syste    | em   |                             |             |                              |  |
| Max. back pres   | ssure  |                             | kPa         | 10.1                         |  |
| Diameter of ex   | khaust pipe recommended                                |                             | mm          | N/A                          |  |
| Air intake sys   | stem   |                             |             |                              |  |
| Max. air intake  |  |                             |             |                              |  |
| Dirty filter     |  |                             | kPa         | 6.2                          |  |
| Normal air clea  | aner and clean filter                                  |                             | kPa         | 3.7                          |  |

kPa

mm

N/A N/A

## **Lubrication system**

Normal oil pressure range

Heavy duty cleaner and clean filter Diameter of intake pipe recommended

| Low idle Rated speed Max. oil temperature permitted in oil pan Oil pan capacity (Max _ Min) Lubrication system Min. capacity (oil pan + oil filter) Usage inclining degree permitted (any direction) | kPa<br>kPa<br>℃<br>L<br>L | 103<br>276_414<br>121<br>N/A<br>27.6<br>N/A |
|--|---------------------------|---|
| Fuel system Fuel injection pump model  | BYC P7100 pump w          | vith GAC governor                           |
| Max. fuel input resistance of transfer pump  | kPa                       | 20.3  |
| Max. overflow fuel resistance at overflow pipe of injector   | kPa                       | 33.9  |
| Total fuel overflow amount   | L/h                       | 83  |
| Cooling system   |                           |   |
| Coolant capacity-engine only   | L                         | 11.1  |
| Max. coolant cycling resistance exterior engine  | kPa                       | N/A   |
| Thermostat adjusting temperature (range)   | ${\mathbb C}$             | 82_93                                       |
| Min. opening pressure of radiator cap  | kPa                       | 103   |
| Max. coolant temperature permitted _ Standby Power/Base output Power   | ${\mathbb C}$             | 110/104                                     |
| Electric system  |                           |   |
| Starter  | 12V                       | 24V   |
| Battery charging system  | 100A                      | 70A   |
| Max. starting circuit resistance   | 0.001Ω                    | 0.002Ω                                      |
| Min. battery capacity12℃ (CCA: Cold Cranking Ampere)   | 1500CCA                   | 750CCA                                      |
| <b>Technical data</b> _ under standard fuel delivery rate FR92516 Engine speed _ RPM   | Base output Power<br>1500 | Standby Power<br>1500                       |

| Output Power _ kW              | 220     | 240     |
|--------------------------------|---------|---------|
| Torque _ Nm                    | 1401    | 1528    |
| Low idle _ RPM                 | 850-950 | 850-950 |
| Friction energy output _ kW    | 26      | 26      |
| Piston speed _ m/s             | 7.25    | 7.25    |
| Engine coolant flow _ L/sec    | 3.3     | 3.3     |
| Air intake flow _ L/sec        | N/A     | N/A     |
| Exhaust flow _ L/sec           | N/A     | N/A     |
| Exhaust temperature _ °C       | 430     | 470     |
| Environment energy output _ kW | N/A     | N/A     |
| Coolant energy output _ kW     | 95      | 105     |
| Fuel energy output _ kW        | 0.1     | 0.1     |

All data's error within ±5%.

Excuse for none notice anymore in case of data changed

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